



IN THE CLAIMS

Please amend the claims as follows:

Claim 1-17 (canceled)

Claim 18 (previously presented): A unit-type heat exchangers comprising:  
a plurality of heat exchange portions each comprising two headers arranged in parallel to each other and spaced apart, a plurality of heat exchange tubes arranged in parallel to each other and joined at opposite ends thereof to the two headers, and a plurality of fins disposed in air passing spaces between the heat exchange tubes, respectively, the heat exchange portions being arranged longitudinally of the headers;  
a plurality of connectors connecting adjacent ones of the heat exchanging portions via the headers, each of the connectors having a plurality of recessed portions at opposite side thereof, the recessed portions being configured to be fitted with ends of the headers, respectively; and  
at least one separating plate disposed between adjacent ones of the heat exchanging portions and arranged parallel to the heat exchange tubes, the separating plate having opposite ends each in contact with respective ones of the connectors.

Claim 19 (previously presented): A unit-type heat exchanger according to claim 18, wherein the air passing spaces in each of the heat exchange portions have a spacing equal to each other, the at least one separating plate forms at least two spacings sandwiched between the heat exchange tubes of adjacent ones of the heat exchange portions, and each of the at least two spacing formed by the at least one separating plate is equal to at least one of the spacing of the air passing spaces in the adjacent ones of the heat exchange portions and has a fin disposed therein.

Claim 20 (previously presented): A unit-type heat exchanger according to claim 18, wherein each of the recessed portions in each of the connectors has a peripheral wall having a high portion and a low portion such that the low portion is positioned not to interfere with arrangement of the heat exchange tubes, and the high portion extends greater than the low portion in height as measured from a bottom surface of each of the recessed portions.

Claim 21 (previously presented): A unit-type heat exchanger according to claim 20, wherein the high portion of the peripheral wall in each of the recessed portions has a height of at least 10 mm as measured from the bottom surface of each of the recessed portions.

Claim 22 (previously presented): A unit-type heat exchanger according to claim 20, wherein the low portion of the peripheral wall of each of the recessed portions has a small height of at least 5 mm as measured from the bottom surface of each of the recessed portions.

Claim 23 (previously presented): A unit-type heat exchanger according to claim 20, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 180 degree therebetween.

Claim 24 (previously presented): A unit-type heat exchanger according to claim 20, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 120 degree therebetween.

Claim 25 (previously presented): A unit-type heat exchanger according to claim 18, wherein the recessed portions of each of the connectors are different in size, and the headers of adjacent ones of the heat exchange portions are different in cross sectional size.

Claim 26 (previously presented): A unit-type heat exchanger according to claim 18, wherein center lines of the recessed portions of each of the connectors are out of alignment with each other, and center lines of the headers of adjacent ones of the heat exchange portions are out of alignment with each other.

Claim 27 (previously presented): A unit-type heat exchanger according to claim 18, wherein each of the recessed portions in each of the connectors has a projection formed on an inner peripheral surface thereof, a peripheral wall of each of the headers has a cutout formed in an end portion thereof, and the cutout in the peripheral wall of each of the headers is configured to fit the projection formed in each of the recessed portions therein.

Claim 28 (previously presented): A unit-type heat exchanger according to claim 18, wherein the plurality of heat exchange portions comprises two heat exchange portions, one of the two heat exchange portions comprises a condenser, and the other one of the two heat exchange portions comprises an oil cooler.

Claim 29 (previously presented): A unit-type heat exchanger according to claim 18, wherein the plurality of heat exchange portions comprises three heat exchange portions, one of the three heat exchange portions comprises a condenser, the other two heat exchange portions comprise oil coolers, and the oil coolers are configured to cool oils for different uses.

Claim 30 (previously presented): A unit-type heat exchangers comprising:  
a plurality of heat exchange portions each comprising two headers arranged in parallel to each other and spaced apart, a plurality of heat exchange tubes arranged in parallel to each other and joined at opposite ends thereof to the two headers, and a plurality of fins disposed

in air passing spaces between the heat exchange tubes, respectively, the heat exchange portions being arranged longitudinally of the headers;

    a plurality of connectors connecting adjacent ones of the heat exchanging portions via the headers, each of the connectors having a plurality of recessed portions at opposite side thereof, the recessed portions being configured to be fitted with ends of the headers, respectively; and

    at least one separating plate disposed between adjacent ones of the heat exchanging portions and arranged parallel to the heat exchange tubes, the separating plate having opposite end portions each tapered toward respective ones of the connectors with a decreasing width.

Claim 31 (previously presented): A unit-type heat exchanger according to claim 30, wherein the air passing spaces in each of the heat exchange portions have a spacing equal to each other, the at least one separating plate forms at least two spacings sandwiched between the heat exchange tubes of adjacent ones of the heat exchange portions, and each of the at least two spacing formed by the at least one separating plate is equal to at least one of the spacing of the air passing spaces in the adjacent ones of the heat exchange portions and has a fin disposed therein.

Claim 32 (previously presented): A unit-type heat exchanger according to claim 30, wherein each of the recessed portions in each of the connectors has a peripheral wall having a high portion and a low portion such that the low portion is positioned not to interfere with arrangement of the heat exchange tubes, and the high portion extends greater than the low portion in height as measured from a bottom surface of each of the recessed portions.

Claim 33 (previously presented): A unit-type heat exchanger according to claim 32, wherein the high portion of the peripheral wall in each of the recessed portions has a height of at least 10 mm as measured from the bottom surface of each of the recessed portions.

Claim 34 (previously presented): A unit-type heat exchanger according to claim 32, wherein the low portion of the peripheral wall of each of the recessed portions has a small height of at least 5 mm as measured from the bottom surface of each of the recessed portions.

Claim 35 (previously presented): A unit-type heat exchanger according to claim 32, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 180 degree therebetween.

Claim 36 (previously presented): A unit-type heat exchanger according to claim 32, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 120 degree therebetween.

Claim 37 (previously presented): A unit-type heat exchanger according to claim 30, wherein the recessed portions of each of the connectors are different in size, and the headers of adjacent ones of the heat exchange portions are different in cross sectional size.

Claim 38 (previously presented): A unit-type heat exchanger according to claim 30, wherein center lines of the recessed portions of each of the connectors are out of alignment

with each other, and center lines of the headers of adjacent ones of the heat exchange portions are out of alignment with each other.

Claim 39 (previously presented): A unit-type heat exchanger according to claim 30, wherein each of the recessed portions in each of the connectors has a projection formed on an inner peripheral surface thereof, a peripheral wall of each of the headers has a cutout formed in an end portion thereof, and the cutout in the peripheral wall of each of the headers is configured to fit the projection formed in each of the recessed portions therein.

Claim 40 (previously presented): A unit-type heat exchanger according to claim 30, wherein the plurality of heat exchange portions comprises two heat exchange portions, one of the two heat exchange portions comprises a condenser, and the other one of the two heat exchange portions comprises an oil cooler.

Claim 41 (previously presented): A unit-type heat exchanger according to claim 30, wherein the plurality of heat exchange portions comprises three heat exchange portions, one of the three heat exchange portions comprises a condenser, the other two heat exchange portions comprise oil coolers, and the oil coolers are configured to cool oils for different uses.

Claim 42 (currently amended): A unit-type heat exchanger comprising:  
a plurality of heat exchange portions each comprising two headers arranged in parallel to each other and spaced apart, a plurality of heat exchange tubes arranged in parallel to each other and joined at opposite ends thereof to the two headers, and a plurality of fins disposed in air passing spaces between the heat exchange tubes, respectively, the heat exchange portions being arranged longitudinally of the headers;

a plurality of connectors connecting adjacent ones of the heat exchange portions via the headers, each of the connectors having a plurality of recessed portions at opposite side

thereof, the recessed portions being configured to be fitted with ends of the headers, respectively; and

at least one separating plate disposed between adjacent ones of the heat exchanging portions and arranged parallel to the heat exchange tubes,

wherein the separating plate has opposite end portions each provided with a protrusion on each of opposite surfaces thereof.

Claim 43 (previously presented): A unit-type heat exchanger according to claim 42, wherein the air passing spaces in each of the heat exchange portions have a spacing equal to each other, the at least one separating plate forms at least two spacings sandwiched between the heat exchange tubes of adjacent ones of the heat exchange portions, and each of the at least two spacing formed by the at least one separating plate is equal to at least one of the spacing of the air passing spaces in the adjacent ones of the heat exchange portions and has a fin disposed therein.

Claim 44 (previously presented): A unit-type heat exchanger according to claim 42, wherein each of the recessed portions in each of the connectors has a peripheral wall having a high portion and a low portion such that the low portion is positioned not to interfere with arrangement of the heat exchange tubes, and the high portion extends greater than the low portion in height as measured from a bottom surface of each of the recessed portions.

Claim 45 (previously presented): A unit-type heat exchanger according to claim 44, wherein the high portion of the peripheral wall in each of the recessed portions has a height of at least 10 mm as measured from the bottom surface of each of the recessed portions.

Claim 46 (previously presented): A unit-type heat exchanger according to claim 44, wherein the low portion of the peripheral wall of each of the recessed portions has a small height of at least 5 mm as measured from the bottom surface of each of the recessed portions.

Claim 47 (previously presented): A unit-type heat exchanger according to claim 44, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 180 degree therebetween.

Claim 48 (previously presented): A unit-type heat exchanger according to claim 44, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 120 degree therebetween.

Claim 49 (previously presented): A unit-type heat exchanger according to claim 42, wherein the recessed portions of each of the connectors are different in size, and the headers of adjacent ones of the heat exchange portions are different in cross sectional size.

Claim 50 (previously presented): A unit-type heat exchanger according to claim 42, wherein center lines of the recessed portions of each of the connectors are out of alignment with each other, and center lines of the headers of adjacent ones of the heat exchange portions are out of alignment with each other.

Claim 51 (previously presented): A unit-type heat exchanger according to claim 42, wherein each of the recessed portions in each of the connectors has a projection formed on an inner peripheral surface thereof, a peripheral wall of each of the headers has a cutout formed in an end portion thereof, and the cutout in the peripheral wall of each of the headers is configured to fit the projection formed in each of the recessed portions therein.

Claim 52 (previously presented): A unit-type heat exchanger according to claim 42, wherein the plurality of heat exchange portions comprises two heat exchange portions, one of the two heat exchange portions comprises a condenser, and the other one of the two heat exchange portions comprises an oil cooler.

Claim 53 (previously presented): A unit-type heat exchanger according to claim 42, wherein the plurality of heat exchange portions comprises three heat exchange portions, one of the three heat exchange portions comprises a condenser, the other two heat exchange portions comprise oil coolers, and the oil coolers are configured to cool oils for different uses.

Claim 54 (previously presented): A unit-type heat exchangers comprising:  
a plurality of heat exchange portions each comprising two headers arranged in parallel to each other and spaced apart, a plurality of heat exchange tubes arranged in parallel to each other and joined at opposite ends thereof to the two headers, and a plurality of fins disposed in air passing spaces between the heat exchange tubes, respectively, the heat exchange portions being arranged longitudinally of the headers;

a plurality of connectors connecting adjacent ones of the heat exchanging portions via the headers, each of the connectors having a plurality of recessed portions at opposite side thereof, the recessed portions being configured to be fitted with ends of the headers, respectively; and

at least one separating plate disposed between adjacent ones of the heat exchanging portions and arranged parallel to the heat exchange tubes, the separating plate has at least one hole or cutout portion between opposite end portions, the at least one hole or cutout portion being configured to reduce a contact area of the separating plate with the fin.

Claim 55 (previously presented): A unit-type heat exchanger according to claim 54, wherein the air passing spaces in each of the heat exchange portions have a spacing equal to

each other, the at least one separating plate forms at least two spacings sandwiched between the heat exchange tubes of adjacent ones of the heat exchange portions, each of the at least two spacing formed by the at least one separating plate is equal to at least one of the spacing of the air passing spaces in the adjacent ones of the heat exchange portions and has a fin disposed therein.

Claim 56 (previously presented): A unit-type heat exchanger according to claim 54, wherein each of the recessed portions in each of the connectors has a peripheral wall having a high portion and a low portion such that the low portion is positioned not to interfere with arrangement of the heat exchange tubes, and the high portion extends greater than the low portion in height as measured from a bottom surface of each of the recessed portions.

Claim 57 (previously presented): A unit-type heat exchanger according to claim 56, wherein the high portion of the peripheral wall in each of the recessed portions has a height of at least 10 mm as measured from the bottom surface of each of the recessed portions.

Claim 58 (previously presented): A unit-type heat exchanger according to claim 56, wherein the low portion of the peripheral wall of each of the recessed portions has a small height of at least 5 mm as measured from the bottom surface of each of the recessed portions.

Claim 59 (previously presented): A unit-type heat exchanger according to claim 56, wherein the high portion of the peripheral wall of each of the recessed portions has opposite edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 180 degree therebetween.

Claim 60 (previously presented): A unit-type heat exchanger according to claim 56, wherein the high portion of the peripheral wall of each of the recessed portions has opposite

edges which are positioned symmetrically about a plane extending through the center of each of the recessed portions and extending longitudinally of the heat exchange tubes, and lines connecting the center of each of the recessed portions to the opposite edges make an angle of 120 degree therebetween.

Claim 61 (previously presented): A unit-type heat exchanger according to claim 54, wherein the recessed portions of each of the connectors are different in size, and the headers of adjacent ones of the heat exchange portions are different in cross sectional size.

Claim 62 (previously presented): A unit-type heat exchanger according to claim 54, wherein center lines of the recessed portions of each of the connectors are out of alignment with each other, and center lines of the headers of adjacent ones of the heat exchange portions are out of alignment with each other.

Claim 63 (previously presented): A unit-type heat exchanger according to claim 54, wherein each of the recessed portions in each of the connectors has a projection formed on an inner peripheral surface thereof, a peripheral wall of each of the headers has a cutout formed in an end portion thereof, and the cutout in the peripheral wall of each of the headers is configured to fit the projection formed in each of the recessed portions therein.

Claim 64 (previously presented): A unit-type heat exchanger according to claim 54, wherein the plurality of heat exchange portions comprises two heat exchange portions, one of the two heat exchange portions comprises a condenser, and the other one of the two heat exchange portions comprises an oil cooler.

Claim 65 (previously presented): A unit-type heat exchanger according to claim 54, wherein the plurality of heat exchange portions comprises three heat exchange portions, one of the three heat exchange portions comprises a condenser, the other two heat exchange portions comprise oil coolers, and the oil coolers are configured to cool oils for different uses.

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Claim 66 (previously presented): A vehicle comprising the unit-type heat exchanger according to any one of claims 18, 30, 42 or 54.